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100W Hazardous Location Integrated LED Linear Fixture - C2D1 - 120-277V - 15,300 lms, Gasketed Bubble Lens, Trunnion Mount - Food Safe

EPLC2-LC-48-LED-R1-NSF-1227-TRN

Please see last page for supporting documentation for this product(certificates, CAD files & drawings, IES files, wiring diagrams, etc).

EPLC2-LC-48-LED-R1-NSF-1227-TRN - Hazardous Location LED Fixture
Listing: NRTL Listed to United States, Canada
Lamp Technology: LED
Dimensions: 47.72'"-L
Weight: 30 lbs
Voltage: 120-277V AC, 50/60Hz
Total Watts: 100W
Total Lumens: 15,300 lms
Luminous Efficacy: 153 Lm/w
Lamp Life: 75,000+ Hours
LED Color Temperature: 5000K, 4500K, 4000K, 3500K or 3000K
Color Rendering Index: >80 CRI
Lamp Type: Integrated LED
Lamp Base: -
Replacement Lamp: -
Beam Angle: 80° x 120°
Lighting Configuration: Flood
Power Efficiency: >95%
Power Factor: 0.992
Amps: 0.833A @ 120V, 0.480A @ 208V, 0.454A @ 220V, 0.416A @ 240V, 0.361A @ 277V
Ambient Operating Temp Range: -50°C to +65°C
Operating Temp Rating: T5
Housing Material: Copper Free Cast Aluminum (non sparking)
Housing Finish: Epoxy Powder Coated - Gray
Lens Material: Molded Polycarbonate Protruding Lens - Gasketed Bubble Lens
Gasket Material: Silicone
Mounting: Trunnion Mount- Other Mounts Available
Wiring Hub: (1) 3/4" NPT

Ratings/Approvals
Class I, Division 2 Groups A, B, C and D
Class II, Division 1 Groups E, F and G
Class II, Division 2 Groups F and G
Class III, Divisions 1 & 2
NRTL Certified to UL 844 Ed. 13
NRTL Certified to UL 1598
NRTL Certified to C22.2 No. 137 Rev 2009
NRTL Certified to C22.2 No. 250.0
NRTL Certified to C22.2 No. 30-M-1986 Rev 2012
IEC 60529 Tested
IP66 Rated Waterproof
Replacement for Fluorescent Linear Fixtures
Field Serviceable
Food Safe
NSF Compliant

Special Orders- Requirements
Contact us for special requirements

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The Larson Electronics EPLC2-LC-48-LED-R1-NSF-1227-TRN Hazardous Location Integrated LED Linear Fixture offers powerful lighting with heavy-duty and energy efficient benefits in Class II, Division 1 rated combustible sites that contain combustible dust, fiber or flyings. Designed for food safe applications, this 100-watt LED unit delivers 15,300 lumens and is field serviceable. The NSF compliant fixture has a gasketed molded polycarbonate protruding lens for added protection and light diffusion.

The IP66 rated fixture is compatible with trunnion mounting installations and features a 3/4" NPT wiring hub.

The EPLC2-LC-48-LED-R1-NSF-1227-TRN is a Class I, Division 2 and Class II, Division 1 & 2 linear fixture that is designed for reliable illumination in food processing or handling facilities with combustible dust (flammable "finely divided" solid materials of 420 microns or less, which can pass through a No. 40 sieve). This 100-watt fixture offers 15,300 lumens of high quality light in hazardous locations requiring protection due to the presence of combustible dust, such as food processing, food handling sites, beverage manufacturing, agriculture, grain storage, sugar facilities and more. An 80° x 120° flood beam angle promotes wide light distribution in the surrounding area. Color temperature options for the LED light includes: 5000K, 4500K, 4000K, 3500K or 3000K. This unit is a suitable replacement for fluorescent linear fixtures. Equipped with field serviceable features, the LED assembly is sealed from the driver box, allowing the driver to be changed without impacting the LEDs.

This NSF compliant light is protected by a copper-free cast aluminum housing, with an epoxy powder coated gray finish for durability in rugged environments. The non-sparking housing is specially designed to dissipate heat, which increases the efficiency and lifespan of the LEDs and electronic components. A protruding molded polycarbonate lens bolted directly on the front of the fixture provides protection from accidental damage or rough contact. For food safe applications, no exposed glass on light fixtures is allowed to prevent potential contamination of food products in the event the fixture breaks. The gasketed bubble lens also helps diffuse the light when the fixture is mounted at low positions or heights. This feature eliminates LED hot spots when looking at the light. Light diffusion reduces issues with blinding, increases operational safety and is a requirement in food safe applications. The T5-rated LED fixture carries an IP66 waterproof rating.

LED Benefits: Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation and/or transportation. Instead of heating a small filament or using a combination of gases to produce light, light emitting diodes (LEDs) use semi-conductive materials that illuminate when electric current is applied, providing instant illumination with no warm up or cool down time before re-striking. Because there is no warm up period, this light can be cycled on and off with no reduction in lamp life.

LED lights run at significantly cooler temperatures than traditional metal halide and high pressure sodium lights and contain no harmful gases, vapors, or mercury, making them both safer and more energy efficient. No extra energy is wasted in cooling enclosed work areas due to external heat emissions from bulb type lights, and the operator risks associated with traditional lighting methods, such as accidental burns and exposure to hazardous substances contained in the glass bulbs, are eliminated. In addition, LEDs are also safer for the environment as they are 100% recyclable, which eliminates the need for costly special disposal services required with traditional gas burning and arc type lamps.

Field Serviceability: This LED light fixture is field serviceable. All major internal components can be purchased from Larson Electronics and installed by a licensed electrician with basic tools. With most explosion proof fixtures, the fixture must be returned to the manufacturer for repair work, which presents downtime and long turn around times for repair work. Larson Electronics addresses this issue with products that cater to field serviceability, allowing operators to perform service work without having to return the fixture to the manufacturer in the event of damage or failure.

Voltage: The hazardous location light is universal voltage capable and can be operated with 120-277V AC, 50/60Hz.

Wiring: A 3/4" NPT hub at the back of the unit is available for completing wiring connections.

Mount: This linear LED light fixture comes standard with trunnion mount features. Several mounting options including pendant, ceiling and wall mounts for replacing existing light fixtures can be ordered separately.

Suggested Applications: The EPLC2-LC series of hazardous location light fixtures are approved for use within environments where flammable or

combustible dusts, fibers, and flying exist or stand the potential to exist, and where flammable or combustible gases or vapors stand the potential to exist. This hazardous area linear light is ideal for a wide variety of applications. Applications include but not limited to chemical manufacturing, coke processing, cranes, food processing (with food grade gasketed polycarbonate lens), grain processing, laboratories, manufacturing, marine vessels, mining, paper processing, pharmaceuticals, power plants, sand blast cabinets, shipyards, storage facilities, textile, washdown areas, and woodworking. Click here to read the NEC description for explosion proof and hazardous locations.

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

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Frequently Asked Questions (FAQ)

Warranty: 60 Months

Options:

EPLC2-LC-48-LED-R1-NSF-1227-TRN-Color Temp

Example: EPLC2-LC-48-LED-R1-NSF-1227-TRN-50K

Color Temp	
5000K	-50K
4500K	-45K
4000K	-40K
3500K	-35K
3000K	-30K

Links (Click on the below items to view):

- **HigResPic1**
- **ISO 9001 Certification**
- **Business Certificate**